

RECEIVED

MAY 15 2008

Department of Environmental Quality  
State Air Program

April 12, 2008

Martin Bauer, Administrator  
Air Quality Division  
Idaho Department of Environmental Quality  
1410 North Hilton  
Boise, Idaho 83706

Subject: Submittal of Permit to Construct Application  
Clay Peak Municipal Solid Waste Landfill, Existing PTC No. P-020034

Dear Mr. Bauer:

Attached for DEQ review and process is a Permit to Construct (PTC) Application for three additional landfill gas flares for Landfill Cell No. I at the Clay Peak Municipal Solid Waste Landfill. The emission rates and flare performance data were taken from previous air quality permit applications and it is our understanding that Kevin Schilling, DEQ Stationary Source Modeling Coordinator, will provide air quality modeling to complete the PTC Application. See the attached electronic mail from Mr. Schilling regarding air quality modeling and result reporting. Note that Payette County would like to review the modeling results before they become final and are incorporated into a draft permit document.

Also enclosed is a \$2,000 payment for regulatory fees to include \$1,000 for the application submittal fee and \$1,000 for application processing fee for an emission increase of approximately 0.97 tons emission per year from the three landfill gas flares reported in Form EI-CP3, Emission Inventory-Criteria Pollutants-Project Emission Increase.

Please direct all PTC Application content questions to Basil Tupy, Holladay Engineering Company, at 208.642.3304.

Sincerely,

A handwritten signature in cursive script that reads "Alan Scharbrough".

Alan Scharbrough  
Landfill Supervisor

Enclosures:

PTC Application  
Payment for Regulatory Fees

copies: Payette County Board of County Commissioners  
Mike Holladay, Holladay Engineering

**From:** Kevin.Schilling@deq.idaho.gov  
**Sent:** Wednesday, May 07, 2008 7:12 AM  
**To:** basil@holladayengineering.com  
**Subject:** RE: Permit To Construct Application, Clay Peak Municipal Solid Waste Landfill  
Basil,

From our discussions, it is my understanding that this project involves permitting several additional flares that are essentially identical to those previously permitted. Emissions of the existing flares were below modeling thresholds for all criteria pollutants and SCREEN3 modeling easily demonstrated compliance with those Toxic Air Pollutants (TAPs) having emissions over the Emissions Screening Levels (ELs). Because of the simplicity of this project, DEQ modeling staff will perform the air impact analyses required for the permit application. If compliance cannot be demonstrated through DEQ's SCREEN3 analyses, because of changes in emissions or configuration of the flares, the application will be determined incomplete and it will be the applicant's responsibility to perform refined modeling that demonstrates compliance with the applicable air quality standards.

Please include a copy of this email with the application as documentation of the agreement for DEQ to perform the required modeling analyses in support of the permit application.

Contact me if you have any questions or concerns.

Kevin Schilling  
Stationary Source Air Modeling Coordinator  
Idaho Department of Environmental Quality  
208 373-0112

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**From:** basil [mailto:basil@holladayengineering.com]  
**Sent:** Thu 4/24/2008 12:24 PM  
**To:** Kevin Schilling  
**Subject:** RE: Permit To Construct Application, Clay Peak Municipal Solid Waste Landfill

Kevin,

Just checking on the status of your air quality modeling efforts for the Clay Peak Municipal Solid Waste Landfill. Please call me at 208.642.3304 if you have any questions.

Thank you for your support.

**Basil**

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**From:** Kevin.Schilling@deq.idaho.gov [mailto:Kevin.Schilling@deq.idaho.gov]  
**Sent:** Wednesday, April 09, 2008 4:03 PM  
**To:** basil@holladayengineering.com  
**Subject:** RE: Permit To Construct Application, Clay Peak Municipal Solid Waste Landfill

Basil,

Based on the previous permitting efforts (I found the previous modeling memo), there should be no problem with permitting this. I look into a couple more things and get back to you.

Kevin

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**From:** basil [mailto:basil@holladayengineering.com]  
**Sent:** Tuesday, April 08, 2008 1:02 PM  
**To:** Kevin Schilling  
**Subject:** Permit To Construct Application, Clay Peak Municipal Solid Waste Landfill

Kevin,

I would like your comments on the attached draft Permit To Construct Application for the Clay Peak Landfill before formal transmittal is made to DEQ. Do the forms have sufficient information for you to complete the air modeling analyses? Note that emission rates (Forms EI CP 1-4) and modeling data (Forms MI 1-4) are the same as submitted for the previous air quality permit. Please let me know if any additional information is needed, otherwise the county will formally transmit the forms to your office for official review and processing.

Thank you for your support.

**Basil Tupy, PE**  
Holladay Engineering Co  
32 North Main Street  
Payette, Idaho 83661  
208/642-3304  
208/642-2159 (fax)

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**DEQ AIR QUALITY PROGRAM**  
 1410 N. Hilton, Boise, ID 83706  
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**Air Permit Hotline – 1-877-5PERMIT**

# PERMIT TO CONSTRUCT APPLICATION

Revision 3  
 04/03/07

Please see instructions on page 2 before filling out the form.

COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER			
1. Company Name	Payette County		
2. Facility Name	Clay Peak Municipal Solid Waste Landfill	3. Facility ID No.	075-0009
4. Brief Project Description - One sentence or less	Install/permit additional gas flares for Landfill Cell No. 1.		
PERMIT APPLICATION TYPE			
5. <input type="checkbox"/> New Facility <input checked="" type="checkbox"/> New Source at Existing Facility <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modify Existing Source: Permit No.: P-020034    Date Issued: February 27, 2004 <input type="checkbox"/> Required by Enforcement Action: Case No.: _____			
6. <input checked="" type="checkbox"/> Minor PTC <input type="checkbox"/> Major PTC			
FORMS INCLUDED			
Included	N/A	Forms	DEQ Verify
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form GI – Facility Information	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form EU0 – Emissions Units General	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU1 - Industrial Engine Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU4 - Cooling Tower Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form EU5 – Boiler Information Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form CBP - Concrete Batch Plant Please Specify number of forms attached: _____	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form BCE - Baghouses Control Equipment	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Form SCE - Scrubbers Control Equipment	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Forms EI-CP1 - EI-CP4 - Emissions Inventory-- criteria pollutants (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	PP – Plot Plan	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Form FRA – Federal Regulation Applicability	<input type="checkbox"/>

<b>DEQ USE ONLY</b> <b>Date Received</b>
<b>Project Number</b>
<b>Payment / Fees Included?</b> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>Check Number</b>



**DEQ AIR QUALITY PROGRAM**  
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# PERMIT TO CONSTRUCT APPLICATION

Revision 3  
 03/26/07

Please see instructions on page 2 before filling out the form.

**All information is required. If information is missing, the application will not be processed.**

## IDENTIFICATION

1. Company Name	Payette County
2. Facility Name (if different than #1)	Clay Peak Municipal Solid Waste Landfill
3. Facility I.D. No.	075-00009
4. Brief Project Description:	install additional gas flares in Landfill Cell No. 1

## FACILITY INFORMATION

5. Owned/operated by: (✓if applicable)	<input type="checkbox"/> Federal government <input type="checkbox"/> State government <input checked="" type="checkbox"/> County government <input type="checkbox"/> City government
6. Primary Facility Permit Contact Person/Title	Alan Scharbrough / Landfill Supervisor
7. Telephone Number and Email Address	208.642.6036 ascharbrough@payettecounty.org
8. Alternate Facility Contact Person/Title	Patti Nitz / Landfill Administrative Assistant
9. Telephone Number and Email Address	208.642.6036 pnitz@payettecounty.org
10. Address to which permit should be sent	Payette County, 2560 Highway 52
11. City/State/Zip	Payette, Idaho 83661
12. Equipment Location Address (if different than #10)	
13. City/State/Zip	
14. Is the Equipment Portable?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15. SIC Code(s) and NAISC Code	Primary SIC: 4953      Secondary SIC (if any): NAICS: 562212
16. Brief Business Description and Principal Product	Municipal Solid Waste Disposal and Waste Recycling Facility
17. Identify any adjacent or contiguous facility that this company owns and/or operates	

## PERMIT APPLICATION TYPE

18. Specify Reason for Application	<input type="checkbox"/> New Facility <input checked="" type="checkbox"/> New Source at Existing Facility <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modify Existing Source: Permit No.: <u>P-020034</u> Date Issued: <u>February 27, 2004</u> <input type="checkbox"/> Permit Revision <input type="checkbox"/> Required by Enforcement Action: Case No.: _____
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## CERTIFICATION

IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.

19. Responsible Official's Name/Title	Marc Shigeta, Chairman of the Board of County Commissioners	
20. RESPONSIBLE OFFICIAL SIGNATURE		Date: April 12, 2008
21. <input checked="" type="checkbox"/> Check here to indicate you would like to review a draft permit prior to final issuance.		



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# PERMIT TO CONSTRUCT APPLICATION

Revision 3  
 03/27/07

Please see instructions on page 2 before filling out the form.

## IDENTIFICATION

Company Name: Payette County	Facility Name: Clay Peak Municipal Solid Waste Landfill	Facility ID No: 075-00009
Brief Project Description:	Install/permit additional landfill gas flares for Landfill Cell No. I	

## EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	LANDFILL GAS FLARE		
2. EU ID Number:	SE FLARE 1.1		
3. EU Type:	<input type="checkbox"/> New Source <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:P-020034    Date Issued: February 27,2004		
4. Manufacturer:	LANDFILL SERVICES CORPORATION		
5. Model:	MODEL NO. CF-5		
6. Maximum Capacity:	30 CFM		
7. Date of Construction:	January 2007		
8. Date of Modification (if any)	N/A		
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes    If Yes, complete the following section. If No, go to line 18.		

## EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:						
11. Date of Installation:		12. Date of Modification (if any):				
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No    (If Yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
Control Efficiency	PM	PM10	SO <sub>2</sub>	NOx	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

## EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	24 HOURS PER DAY, 7 DAYS PER WEEK, 52 WKS PER YEAR
19. Maximum Operation	24 HOURS PER DAY, 7 DAYS PER WEEK, 52 WKS PER YEAR

## REQUESTED LIMITS

20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input type="checkbox"/> Production Limit(s):	
<input type="checkbox"/> Material Usage Limit(s):	
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	



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# PERMIT TO CONSTRUCT APPLICATION

Revision 3  
 03/27/07

Please see instructions on page 2 before filling out the form.

## IDENTIFICATION

Company Name: Payette County	Facility Name: Clay Peak Municipal Solid Waste Landfill	Facility ID No: 075-00009
Brief Project Description:	Install/permit additional landfill gas flares for Landfill Cell No. I	

## EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	LANDFILL GAS FLARE		
2. EU ID Number:	SE FLARE 1.2		
3. EU Type:	<input checked="" type="checkbox"/> New Source <input type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:P-020034    Date Issued: February 27,2004		
4. Manufacturer:	LANDFILL SERVICES CORPORATION		
5. Model:	MODEL NO. CF-5		
6. Maximum Capacity:	30 CFM		
7. Date of Construction:	TO BE INSTALLED IN 2008		
8. Date of Modification (if any)	N/A		
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes    If Yes, complete the following section. If No, go to line 18.		

## EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:						
11. Date of Installation:		12. Date of Modification (if any):				
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No    (If Yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
Control Efficiency	PM	PM10	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

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## REQUESTED LIMITS

20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input type="checkbox"/> Production Limit(s):	
<input type="checkbox"/> Material Usage Limit(s):	
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	



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# PERMIT TO CONSTRUCT APPLICATION

Revision 3  
 03/27/07

*Please see instructions on page 2 before filling out the form.*

## IDENTIFICATION

Company Name: Payette County	Facility Name: Clay Peak Municipal Solid Waste Landfill	Facility ID No: 075-00009
Brief Project Description:	Install/permit additional landfill gas flares for Landfill Cell No. I	

## EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	LANDFILL GAS FLARE		
2. EU ID Number:	SW FLARE 1.1		
3. EU Type:	<input type="checkbox"/> New Source <input checked="" type="checkbox"/> Unpermitted Existing Source <input type="checkbox"/> Modification to a Permitted Source -- Previous Permit #:P-020034    Date Issued: February 27, 2004		
4. Manufacturer:	LANDFILL SERVICES CORPORATION		
5. Model:	MODEL NO. CF-5		
6. Maximum Capacity:	30 CFM		
7. Date of Construction:	JANUARY 2007		
8. Date of Modification (if any)	N/A		
9. Is this a Controlled Emission Unit?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes    If Yes, complete the following section. If No, go to line 18.		

## EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:						
11. Date of Installation:		12. Date of Modification (if any):				
13. Manufacturer and Model Number:						
14. ID(s) of Emission Unit Controlled:						
15. Is operating schedule different than emission units(s) involved?	<input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Does the manufacturer guarantee the control efficiency of the control equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No    (If Yes, attach and label manufacturer guarantee)					
	Pollutant Controlled					
Control Efficiency	PM	PM10	SO <sub>2</sub>	NOx	VOC	CO

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

## EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	24 HOURS PER DAY, 7 DAYS PER WEEK, 52 WKS PER YEAR
19. Maximum Operation	24 HOURS PER DAY, 7 DAYS PER WEEK, 52 WKS PER YEAR

## REQUESTED LIMITS

20. Are you requesting any permit limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    (If Yes, check all that apply below)
<input type="checkbox"/> Operation Hour Limit(s):	
<input type="checkbox"/> Production Limit(s):	
<input type="checkbox"/> Material Usage Limit(s):	
<input type="checkbox"/> Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
<input type="checkbox"/> Other:	
21. Rationale for Requesting the Limit(s):	





DEQ AIR QUALITY PROGRAM  
1410 N. Hilton, Boise, ID 83706  
For assistance, call the  
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**PERMIT TO CONSTRUCT APPLICATION**

Revision 3  
4/5/2007

*Please see instructions on page 2 before filling out the form.*

Company Name: **PAYETTE COUNTY**


Facility Name: **Clay Peak Municipal Solid Waste Landfill**

Facility ID No.: **075-00009**

Brief Project Description: **Install/permit additional landfill gas flares for Landfill Cell No. 1**

**SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES**

1.	2.	3.											
		PM <sub>10</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Source(s)													
landfill gas flare	NW Flr 1.1	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07				
landfill gas flare	NW Flr 1.2	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07				
landfill gas flare	NE Flr 1.1	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07				
landfill gas flare	NE Flr 1.2	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07				

	IDEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the <b>Air Permit Hotline - 1-877-5PERMIT</b>	<b>PERMIT TO CONSTRUCT APPLICATION</b> Revision 3 4/5/2007												
<i>Please see instructions on page 2 before filling out the form.</i>														
Company Name:		PAYETTE COUNTY												
Facility Name:		Clay Peak Municipal Solid Waste Landfill												
Facility ID No.:		075-00009												
Brief Project Description:		Install/permit additional landfill gas flares for Landfill Cell No. 1												
<b>SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES</b>														
1.	2.	3.												
		PM <sub>10</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead		
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	
Point Source(s)														


**Instructions for Form EI-CP1**


**This form is designed to provide the permit writer and air quality modeler with a summary of the criteria pollutant emissions of each emission unit/point located at the facility. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.**

Please fill in the same company name, facility name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

1. Provide the name of all emission units at the facility. This name must match names on other submittals to IDEQ and within this application.
2. Provide the identification number for the stack which the emission unit exits.
3. Provide the emission rate in pounds per hour and tons per year for all criteria pollutants emitted by this point source. In this form, emission rates for a point source are the maximum allowable emissions for both short term (pounds per hour) and long term (tons per year). These emission rates are its permitted limits (if any). Otherwise, potential to emit should be shown. Potential to emit is defined as uncontrolled emissions at maximum design or achievable capacity (whichever is higher) and year-round continuous operation (8760 hours per year) if there are no federally enforceable permit limits on the emission point. If the emission point has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, the control efficiency or proposed permit limit(s) may be used in calculating potential to emit.

**NOTE:** Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the <b>Air Permit Hotline - 1-877-5PERMIT</b>	<b>PERMIT TO CONSTRUCT APPLICATION</b> Revision 2 4/5/2007											
Please see instructions on page 2 before filling out the form.													
Company Name:		PAYETTE COUNTY											
Facility Name:		Clay Peak Municipal Solid Waste Landfill											
Facility ID No.:		075-00009											
Brief Project Description:		Install/permit additional landfill gas flares for Landfill Cell No. 1.											
<b>SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - FUGITIVE SOURCES</b>													
1.	2.	3.											
		PM <sub>10</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead	
Fugitive Source Name	Fugitive ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Fugitive Source(s)													
Heavy Equipment Operation	Hvy Equip	0.71	1.11	3.71	5.79	36.69	57.24	2.68	4.18				
Landfill Road Dust	Road-1	2.94	4.59										
Earthwork Activity	Dirt - 1	36.92	57.60										
Wood Chip/Grinding	Chip - 1	0.45	0.71	0.80	1.25	5.74	8.95	0.91	1.42				
Rock and Compost Screening	SCR - 1	0.03	0.05	0.21	0.32	1.94	3.03	0.14	0.22				
Rock and Compost Screening	SCR - 2	0.03	0.05	0.21	0.32	1.94	3.03	0.14	0.22				
<b>Total</b>		41.09	64.10	4.93	7.69	46.31	72.24	3.87	6.03				

	IDEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the <b>Air Permit Hotline - 1-877-5PERMIT</b>	<b>PERMIT TO CONSTRUCT APPLICATION</b> Revision 2 4/5/2007												
<i>Please see instructions on page 2 before filling out the form.</i>														
Company Name:		PAYETTE COUNTY												
Facility Name:		Clay Peak Municipal Solid Waste Landfill												
Facility ID No.:		075-00009												
Brief Project Description:		Install/permit additional landfill gas flares for Landfill Cell No. 1.												
<b>SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - FUGITIVE SOURCES</b>														
1.	2.	3.												
		PM <sub>10</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead		
Fugitive Source Name	Fugitive ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	
Fugitive Source(s)														

**Instructions for Form EI-CP2**

**This form is designed to provide the permit writer and air quality modeler with a summary of the criteria pollutant emissions of each emission unit/point located at the facility. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.**

Please fill in the same company name, facility name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

Fugitive emissions are those emissions that cannot reasonably be made to pass through a stack or vent or equivalent opening. Examples include coal piles, unpaved roads, etc. Fugitive emission sources at your plant must be included in this form.

1. Provide the name of all fugitive sources at the facility. This name must match names on other submittals to IDEQ and within this application.
2. Provide the identification number for the fugitive source. This ID number should match ID numbers on other submittals to IDEQ and within this application.
3. Provide the emission rate in pounds per hour and tons per year for all criteria pollutants emitted by this fugitive source. In this form, emission rates for a fugitive source are the maximum allowable emissions for both short term (pounds per hour) and long term (tons per year). These emission rates are its permitted limits (if any). Otherwise, potential to emit should be shown. Potential to emit is defined as uncontrolled emissions at maximum design or achievable capacity (whichever is higher) and year-round continuous operation (8760 hours per year) if there are no federally enforceable permit limits on the emission point. If the emission point has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, then, the control efficiency or proposed permit limit(s) may be used in calculating potential to emit.

**NOTE:** Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.



DEQ AIR QUALITY PROGRAM  
1410 N. Hilton, Boise, ID 83706  
For assistance, call the  
**Air Permit Hotline - 1-877-5PERMIT**

**PERMIT TO CONSTRUCT APPLICATION**

Revision 3  
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name: PAYETTE COUNTY

Facility Name: Clay Peak Municipal Solid Waste Landfill

Facility ID No.: 075-00009

Brief Project Description: Install/permit additional landfill gas flares for Landfill Cell No. I

**SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - POINT SOURCES**

1.	2.	3.											
		PM <sub>10</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Source(s)													
landfill gas flare (existing permit)	NW Flr 1.1												
landfill gas flare (existing permit)	NW Flr 1.2												
landfill gas flare (existing permit)	NE Flr 1.1												
landfill gas flare (existing permit)	NE Flr 1.2												
landfill gas flare (new source)	SE Flare 1.1	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07				
landfill gas flare (new source)	SE Flare 1.2	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07				
landfill gas flare (new source)	SW Flare 1.1	0.02	0.07	0.01	0.03	0.04	0.16	0.02	0.07				



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**PERMIT TO CONSTRUCT APPLICATION**

Revision 3  
4/5/2007

Please see instructions on page 2 before filling out the form.

Company Name: PAYETTE COUNTY

Facility Name: Clay Peak Municipal Solid Waste Landfill

Facility ID No.: 075-00009

Brief Project Description: Install/permit additional landfill gas flares for Landfill Cell No. I

**SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - POINT SOURCES**

1.	2.	3.											
		PM <sub>10</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead	
Emissions units	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Source(s)													

**Instructions for Form EI-CP3**

This form is designed to provide the permit writer and air quality modeler with a summary of the change in criteria pollutant emissions of each emission unit/point associated with this permit application. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

1. Provide the name of the emission unit. This name should match names on other submittals to IDEQ and within this application.
2. Provide the identification number for the stack which the emission unit exits.
3. Provide the increase in emissions in pounds per hour and tons per year for all criteria pollutants emitted by this emission unit. In this form, increase in emissions for an emission unit are the proposed PTE - Previously modeled PTE. If the emission point has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, then, the control efficiency or proposed permit limit(s) may be used in calculating proposed potential to emit.

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.

**PERMIT TO CONSTRUCT APPLICATION**Revision 3  
4/5/2007

*Please see instructions on page 2 before filling out the form.*

Facility Name:

Clay Peak Municipal Solid Waste Landfill

Facility ID No.:

075-00009

**Brief Project Description:**

Install/permit additional landfill gas flares for Landfill Cell No. 1
---

1.

**2.**

**3.**

**Air Pollutant Maximum Change in Emissions Rate (lbs/hr or t/yr)**

**PM<sub>10</sub>**

 $\text{SO}_2$ 

**NO<sub>x</sub>**

CO

**VOC**

## Lead

Fugitive Source Name

**Fugitive ID**

**lb/hr**

T/yr

**lb/hr**

T/yr

**b/h**

T/y

**lb/h**

T/yr

**lb/hr**

T/yr


**lb/hr**

T/yr

**Fugitive Source(s)**

## No Increase in Fugitive Sources Expected

Total

	IDEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the <b>Air Permit Hotline - 1-877-5PERMIT</b>	<b>PERMIT TO CONSTRUCT APPLICATION</b> Revision 3 4/5/2007
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Please see instructions on page 2 before filling out the form.

Company Name:	PAYETTE COUNTY
Facility Name:	Clay Peak Municipal Solid Waste Landfill
Facility ID No.:	075-00009
Brief Project Description:	Install/permit additional landfill gas flares for Landfill Cell No. 1

**SUMMARY OF EMISSIONS INCREASE (PROPOSED PTE - PREVIOUSLY MODELED PTE) - FUGITIVE SOURCES**

1.	2.	3. Air Pollutant Maximum Change in Emissions Rate (lbs/hr or t/yr)											
		PM <sub>10</sub>		SO <sub>2</sub>		NO <sub>x</sub>		CO		VOC		Lead	
Fugitive Source Name	Fugitive ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Fugitive Source(s)													

**Instructions for Form EI-CP4**


**This form is designed to provide the permit writer and air quality modeler with a summary of the change in criteria pollutant emissions of each emission unit/point associated with this permit application. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.**

Please fill in the same company name, facility name, facility ID Number, and brief project description as on Form CS in the boxes provided. This is useful in case any pages of the application get separated.

1. Provide the name of the emission unit. This name should match names on other submittals to IDEQ and within this application.
2. Provide the identification number for the fugitive source. This ID should match IDs on other submittals to IDEQ and within this application.
3. Provide the increase in emissions in pounds per hour and tons per year for all criteria pollutants emitted by this fugitive source. In this form, increase in emissions for an emission unit are the proposed PTE - Previously modeled PTE. If the fugitive source has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, the control efficiency or proposed permit limit(s) may be used in calculating proposed potential to emit.

**NOTE:** Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.



	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the <b>Air Permit Hotline - 1-877-5PERMIT</b>	<b>PERMIT TO CONSTRUCT APPLICATION</b> Revision 3 4/5/2007


*Please see instructions on page 2 before filling out the form.*

Company Name:	PAYETTE COUNTY MODELING RESULTS TO BE PROVIDED BY KEVIN SCHILLING, DEQ
Facility Name:	Clay Peak Municipal Solid Waste Landfill
Facility ID No.:	075-00009
Brief Project Description:	Install/permit additional landfill gas flares for Landfill Cell No. I

#### SUMMARY OF AIR IMPACT ANALYSIS RESULTS - CRITERIA POLLUTANTS

		1.		2.	3.	4.		5.
Criteria Pollutants	Averaging Period	Significant Impact Analysis Results ( $\mu\text{g}/\text{m}^3$ )	Significant Contribution Level ( $\mu\text{g}/\text{m}^3$ )	Full Impact Analysis Results ( $\mu\text{g}/\text{m}^3$ )	Background Concentration ( $\mu\text{g}/\text{m}^3$ )	Total Ambient Impact ( $\mu\text{g}/\text{m}^3$ )	NAAQS ( $\mu\text{g}/\text{m}^3$ )	Percent of NAAQS
PM <sub>10</sub>	24-hour		5				150	
	Annual		1				50	
SO <sub>2</sub>	3-hr		25				1300	
	24-hr		5				365	
	Annual		1				80	
NO <sub>2</sub>	Annual		1				100	
CO	1-hr		2000				10000	
	8-hr		500				40000	

[illegible]

	DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the <b>Air Permit Hotline - 1-877-5PERMIT</b>	<b>PERMIT TO CONSTRUCT APPLICATION</b> Revision 3 4/5/2007								
<i>Please see instructions on page 2 before filling out the form.</i>										
Company Name:										
Facility Name:										
Facility ID No.:										
Brief Project Description:										
<b>FUGITIVE SOURCE PARAMETERS</b>										
1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.
<b>Emissions units</b>	<b>Stack ID</b>	<b>UTM Easting (m)</b>	<b>UTM Northing (m)</b>	<b>Base Elevation (msl)</b>	<b>Release Height (msl)</b>	<b>Easterly Length (ft)</b>	<b>Northerly Length (ft)</b>	<b>Angle from North ( ° )</b>	<b>Initial Vertical Dimension (ft)</b>	<b>Initial Horizontal Dimension (ft)</b>
<b>Area Source(s)</b>										
Heavy Equipment Operation	Hvy Equip									
Landfill Road Dust, Equip Traffic	Road - 1									
Earthwork Activity	Dirt - 1									
Wood Chip/Grinding	Chip - 1									
Rock and Compost Screening	SCR - 1									
Rock and Compost Screening	SCR - 2									
MODELING RESULTS TO BE PROVIDED BY KEVIN SCHILLING, DEQ										
<b>Volume Source(s)</b>										

[illegible]

# LEGEND

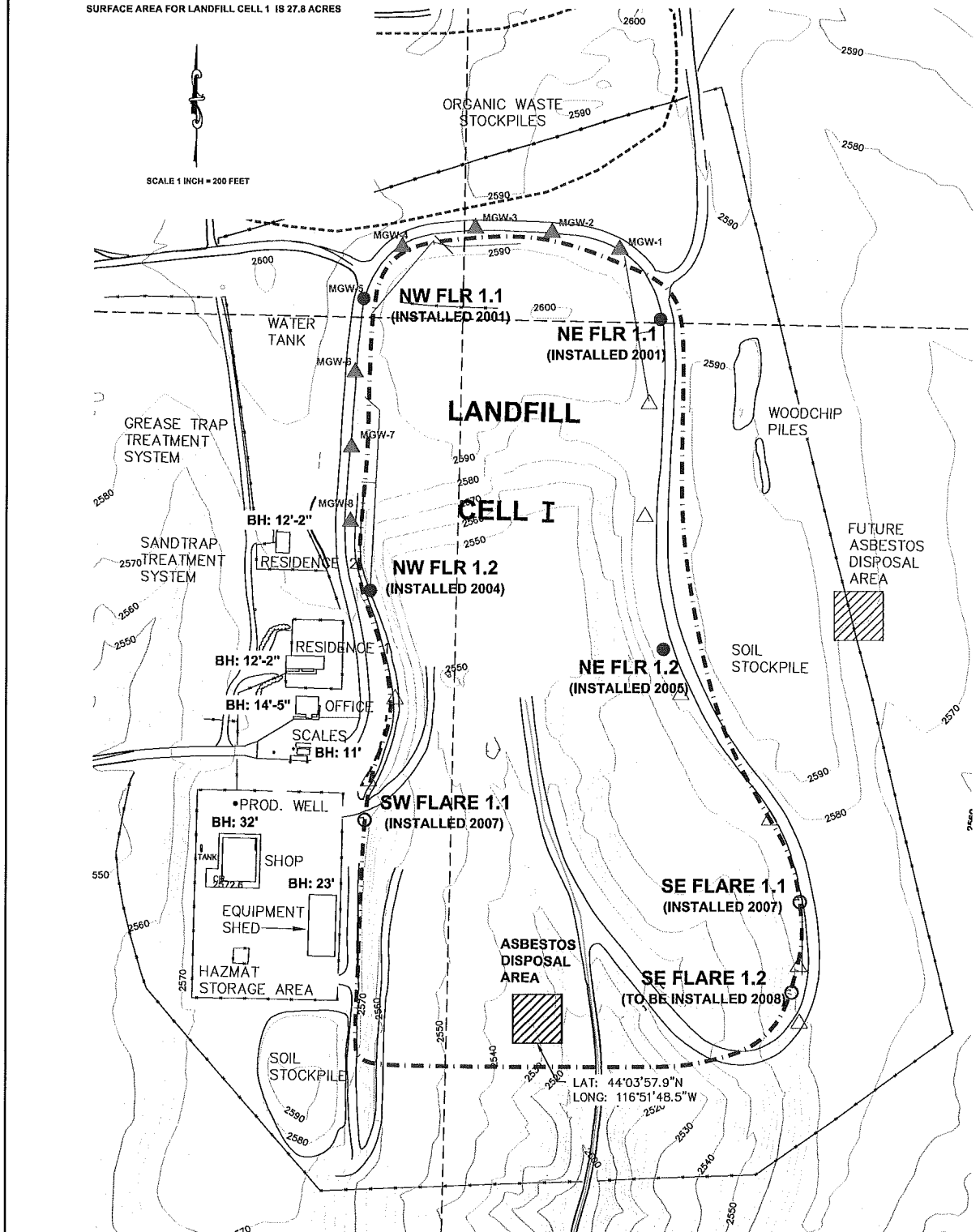
- PERIMETER OF LANDFILL CELL I
- PERIMETER OF ORGANIC WASTE STOCKPILES
- PERMITTED EXISTING GAS FLARES, 12 FOOT HEIGHT
- ▲ EXISTING VENTS - METHANE GAS WELL(MGW)
- △ PROPOSED VENTS
- UNPERMITTED EXISTING AND/OR PROPOSED GAS FLARES, 12 FOOT HEIGHT
- BH BUILDING HEIGHT

SURFACE AREA FOR LANDFILL CELL 1 IS 27.8 ACRES

BUILDING LOCATION		
BUILDING	LATITUDE <sup>①</sup>	LONGITUDE <sup>②</sup>
RESIDENCE 1	44°03'57.1" N	116°51'48.1" W
RESIDENCE 2	44°03'59.6" N	116°51'49.1" W
OFFICE	44°03'56.3" N	116°51'48.3" W
SCALES	44°03'55.2" N	116°51'48.5" W
SHOP	44°03'53.4" N	116°51'49.9" W
EQUIPMENT SHED	44°03'52.2" N	116°51'47.7" W

NOTE: ① TAKEN AT NORTHEAST CORNER OF BUILDING

FLARE LOCATION		
FLARE NO.	LATITUDE	LONGITUDE
NW FLR 1.1	44°04'04.5" N	116°51'47.6" W
NW FLR 1.2	44°04'00" N	116°51'47.6" W
NE FLR 1.1	44°04'06.9" N	116°51'39.6" W
NE FLR 1.2	44°04'01.8" N	116°51'39.1" W
SW FLARE 1.1	44°03'54.7" N	116°51'47.9" W
SE FLARE 1.1	44°03'55.8" N	116°51'35.8" W
SE FLARE 1.2	44°03'57.8" N	116°51'48.5" W



## PLOT PLAN LAYOUT OF LANDFILL CELL I REVISED APRIL 2008

**HOLLADAY ENGINEERING CO.**  
ENGINEERS • CONSULTANTS  
32 N. MAIN, P.O. BOX 235, PAYETTE, ID 83661  
(208) 642-3304 • FAX (208) 642-3109  
EMAIL: huc@holladayengineering.com

DATE: 3-27-08  
DRAWN BY: JHE  
CHECKED BY: JHE  
TITLED BY: JHE  
SCALE: AS SHOWN  
SHEET: 1 OF 1  
PROJECT: LANDFILL CELL I  
JOB NO.: 080008 A  
DATE: 3-27-08  
BY: JHE  
CHECKED BY: JHE  
TITLED BY: JHE  
SCALE: AS SHOWN  
SHEET: 1 OF 1  
PROJECT: LANDFILL CELL I  
JOB NO.: 080008 A



**DEQ AIR QUALITY PROGRAM**  
 1410 N. Hilton, Boise, ID 83706  
 For assistance, call the  
**Air Permit Hotline – 1-877-5PERMIT**

# PERMIT TO CONSTRUCT APPLICATION

Revision 3  
 03/26/07

Please see instructions on page 2 before filling out the form.

IDENTIFICATION		
Company Name: Payette County	Facility Name: Clay Peak Municipal Solid Waste Landfill	Facility ID No: 075-00009
Brief Project Description: Install/permit additional gas flares for Landfill Cell No. 1		
APPLICABILITY DETERMINATION		
1. Will this project be subject to 1990 CAA Section 112(g)? (Case-by-Case MACT)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES* * If YES, applicant must submit an application for a case-by-case MACT determination [IAC 567 22-1(3)"b" (8)]
2. Will this project be subject to a New Source Performance Standard? (40 CFR part 60)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES* *If YES, please identify sub-part: _____
3. Will this project be subject to a MACT ( <u>M</u> aximum <u>A</u> chievable <u>C</u> ontrol <u>T</u> echnology) regulation? (40 CFR part 63)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES* *If YES, please identify sub-part: _____
THIS ONLY APPLIES IF THE PROJECT EMITS A HAZARDOUS AIR POLLUTANT		
4. Will this project be subject to a NESHAP ( <u>N</u> ational <u>E</u> mission <u>S</u> tandards for <u>H</u> azardous <u>A</u> ir <u>P</u> ollutants) regulation? (40 CFR part 61)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES* *If YES, please identify sub-part: _____
5. Will this project be subject to PSD ( <u>P</u> revention of <u>S</u> ignificant <u>D</u> eterioration)? (40 CFR section 52.21)	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
6. Was netting done for this project to avoid PSD?	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES* *If YES, please attach netting calculations
<b>IF YOU ARE UNSURE HOW TO ANSWER ANY OF THESE QUESTIONS, CALL THE AIR PERMIT HOTLINE AT 1-877-5PERMIT</b>		